=> d l4 ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:490069 CAPLUS
DOCUMENT NUMBER: 135:242452
TITLE: Versatile Strategy for Oligonucleotide Derivatization. Introduction of Lanthanide(III) Chelates to Oligonucleotides
AUTHOR(S): Hovinen, Jari; Hakala, Harri
CORPORATE SOURCE: PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101, Finland
SOURCE: Organic Letters (2001), 3(16), 2473-2476
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:242452

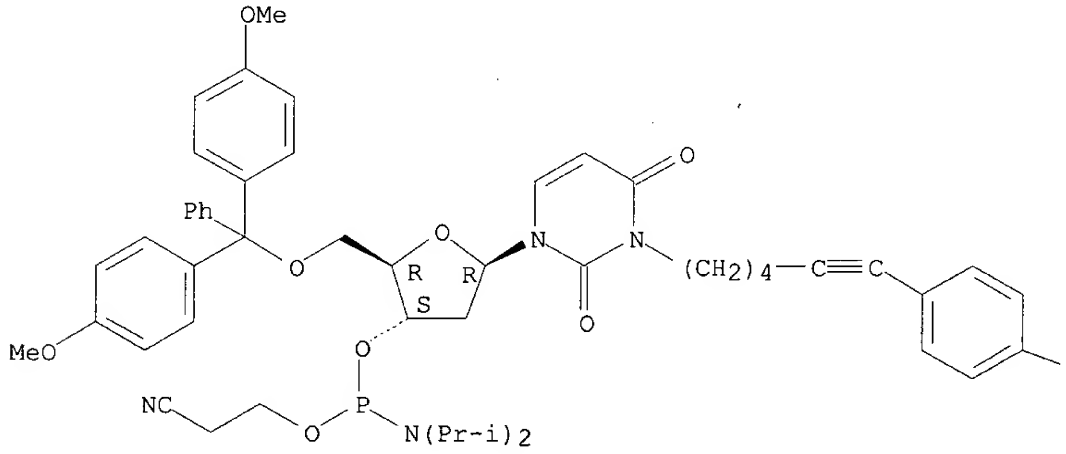
AB Novel nucleosidic phosphoramidite blocks were synthesized by a Mitsunobu reaction between 2'-deoxy-5'-O-(4,4'-dimethoxytrityl)uridine and a primary alc. contg. a conjugate group in its structure (a protected functional group, an org. dye, or a precursor of a lanthanide(III) chelate) followed by phosphitylation. They were used in machine-assisted DNA synthesis in the std. manner. A slightly modified deprotection procedure was used for the prepn. of oligonucleotide conjugates tethered to lanthanide(III) chelates. For the latter application one non-nucleosidic block was also synthesized.

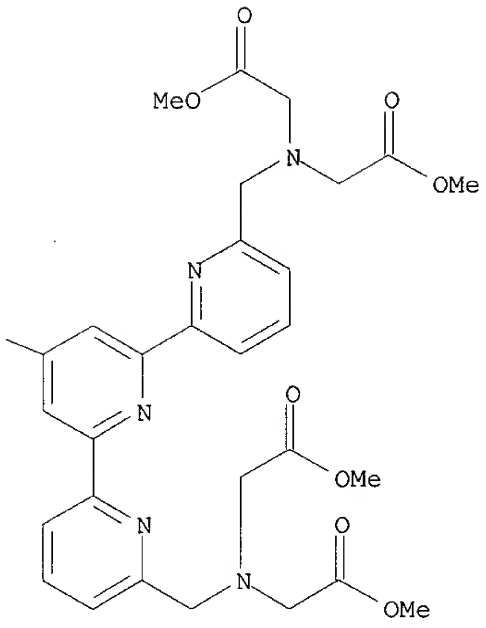
IT **358978-84-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(versatile strategy for oligonucleotide derivatization introduction of lanthanide chelates to oligonucleotides)

RN 358978-84-4 CAPLUS
CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 11:23:52 ON 11 APR 2003

L1 STRUCTURE UPLOADED

L2 0 S L1 SSS SAM

L3 1 S L1 SSS FULL

FILE 'CAPLUS, USPATFULL, MEDLINE' ENTERED AT 11:26:13 ON 11 APR 2003

L4 1 S L3

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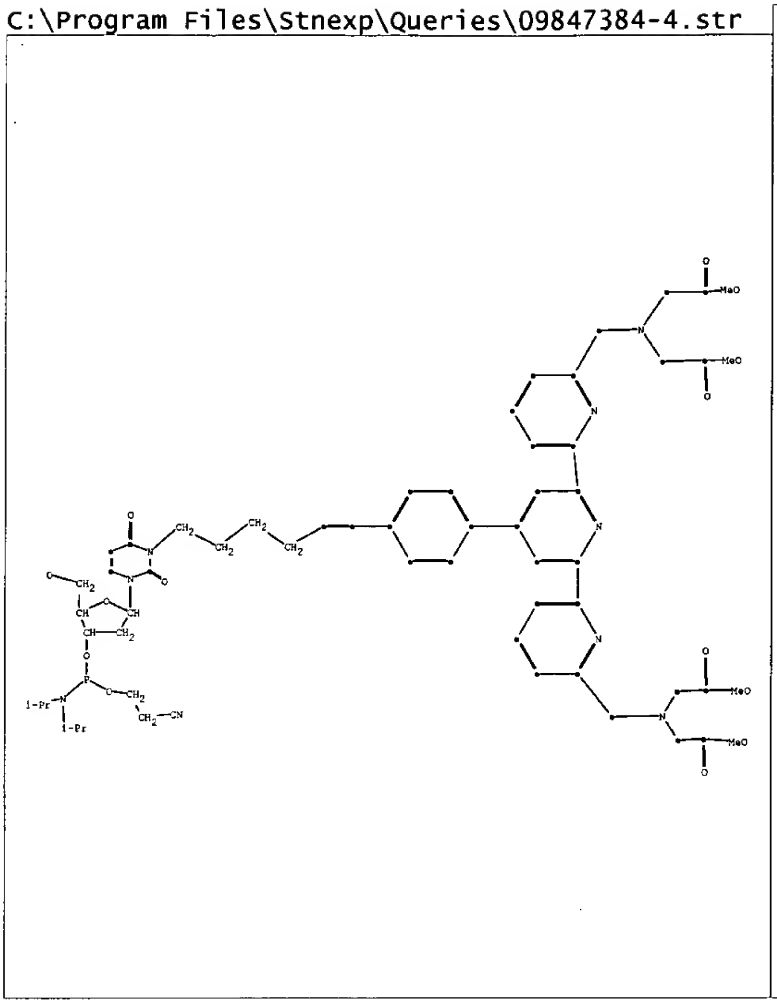

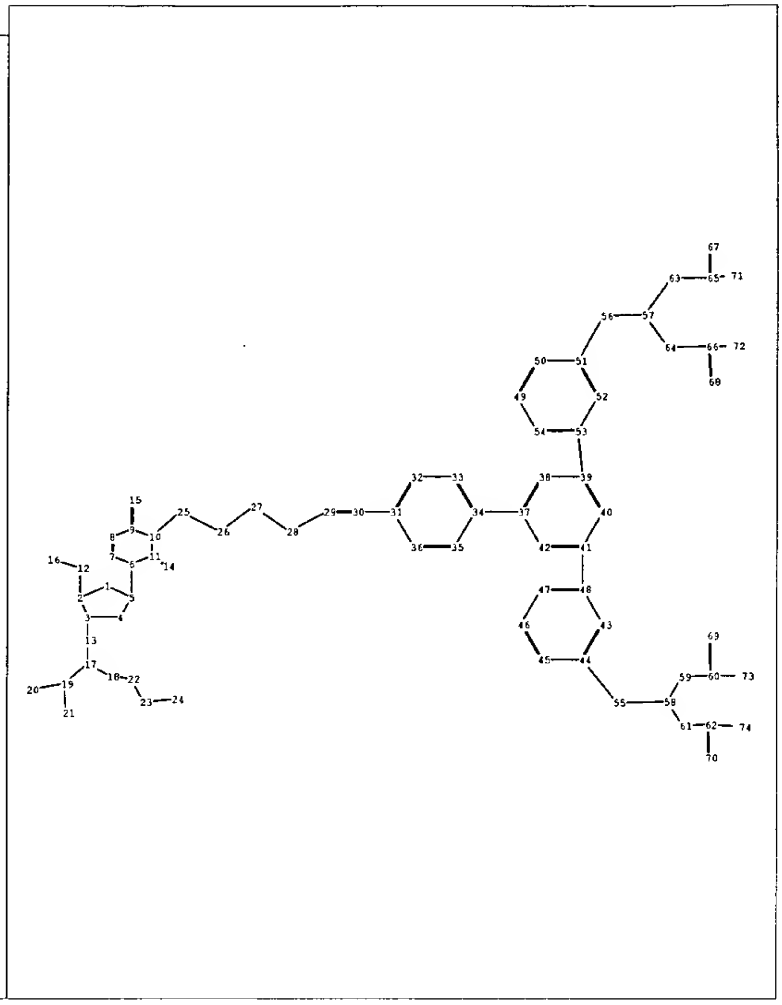

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58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 48 49 50 51 52 53 54
chain bonds :
2-12 3-13 5-6 9-15 10-25 11-14 12-16 13-17 17-18 17-19 18-22 19-20 19-21
22-23 23-24 25-26 26-27 27-28 28-29 29-30 30-31 34-37 39-53 41-48 44-55 51-56
55-58 56-57 57-63 57-64 58-59 58-61 59-60 60-69 60-73 61-62 62-70 62-74 63-65
64-66 65-67 65-71 66-68 66-72
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 31-32 31-36 32-33 33-34
34-35 35-36 37-38 37-42 38-39 39-40 40-41 41-42 43-44 43-48 44-45 45-46 46-47
47-48 49-50 49-54 50-51 51-52 52-53 53-54
exact/norm bonds :
1-2 1-5 2-3 3-4 3-13 4-5 5-6 6-7 6-11 7-8 8-9 9-10 9-15 10-11 11-14 13-17
17-18 17-19 55-58 56-57 57-63 57-64 58-59 58-61 60-69 62-70 65-67 66-68
exact bonds :
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30-31 34-37 39-53 41-48 44-55 51-56 59-60 60-73 61-62 62-74 63-65 64-66 65-71
66-72
normalized bonds :
31-32 31-36 32-33 33-34 34-35 35-36 37-38 37-42 38-39 39-40 40-41 41-42 43-44
43-48 44-45 45-46 46-47 47-48 49-50 49-54 50-51 51-52 52-53 53-54

Match level :
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